



Trempealeau County Department of Land Management

Land and Water Resource Management Plan

2016~2026

Introduction

- Trempealeau County has a rich tradition of valuing and protecting its natural resources
- This plan is an update to the original plan adopted by the Land and Water Conservation Board in 1999 and later updated in 2006 and 2011
- Public Participation has been the key to developing and revising our Land and Water Resource Management Plan

Public Participation

- Input during the comprehensive planning process
- Input from the 30 member Citizen Advisory Committee
- Input from cooperating agencies: DNR Forester, UW-Extension, Farm Service Agency, Natural Resources Conservation Service and the Department of Natural Resources
- Public input requested at the October 12th, 2016 Environment and Land Use meeting
- Public input requested at the November 9th, 2016 Public Hearing

Resource Assessment

- Trempealeau County is located in West Central Wisconsin
- There is approximately 476,800 acres and Trempealeau County is bordered by the Mississippi, Trempealeau, Buffalo and Black Rivers
- There are 25 streams in the county totaling 59 miles that are Exceptional Resource Waters and 14 streams totaling 134miles that are on the 303d list of Impaired Waters

Resource Assessment

- Dairying and Meat Animal production is 70% of the County income.
- Nonpoint Source is the primary cause of surface water quality issues. Those sources include: barnyard runoff, nutrient and sediment runoff from cropped fields, manure runoff from improperly stacked/stored animal waste, concentrated flow erosion from cropped fields and logging trails, ephemeral erosion from cropped fields and runoff from construction projects.

Plan Goals

- Based on public input, the LWRM plan goals have been categorized into 4 areas
 - Water Quality
 - Land Resources
 - Non-Agricultural Land Management
 - Forest & Invasive Species
- These goals are the foundation for the development of this plan

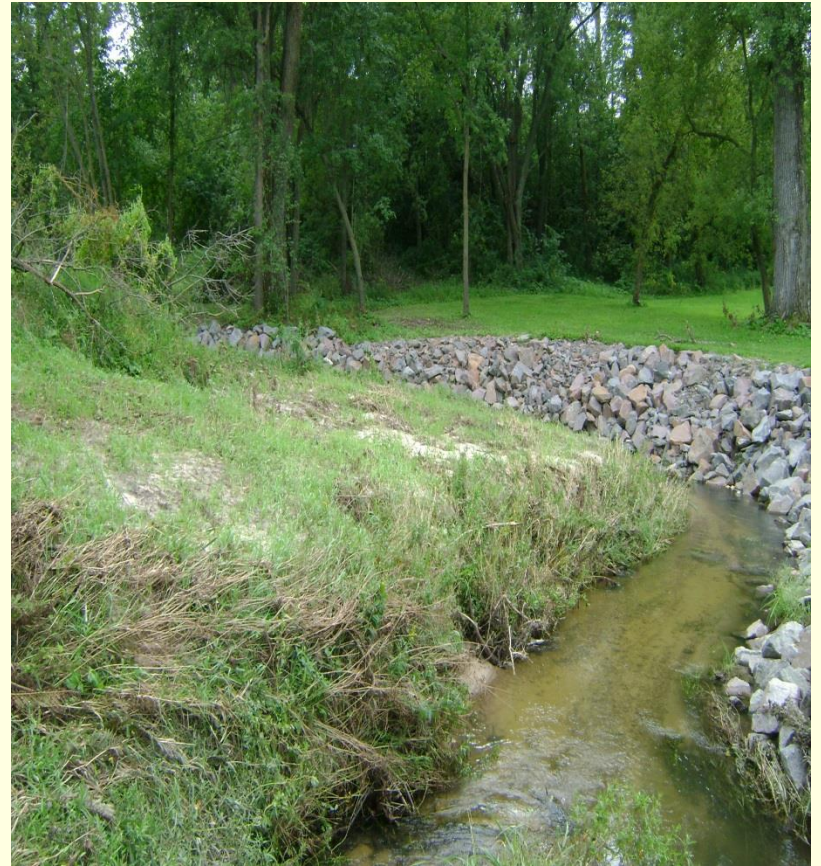
Water Quality

- *GOAL:* Protect and Enhance the Water Resources of Trempealeau County

Water Quality Goal Objectives

- Protect the surface water resources of Trempealeau County
- Protect the groundwater resources of Trempealeau County
- Protect the wetlands of Trempealeau County

Streambank Protection



Shoreline Protection





Success of Streambank Restoration in the North Branch of the Elk Creek

Tess Johnson, Conservation Engineering Specialist, is conducting the stream survey for the proud and anxious landowners waiting to see the habitat improvements as a result of their Streambank Restoration efforts.

Land Resources

- *GOAL: Protect and Enhance the Soil Resources of Trempealeau County*

Land Resources Goal Objectives:

- All croplands within Trempealeau County shall be cropped to equal or less than “T” – the tolerable soil loss value
- Local policymakers and Farmers will have an increased understanding of Soil Health to increase infiltration and reduce surface runoff
- Ensure that all areas of gully and ephemeral erosion are adequately stabilized and sodded
- All croplands farmed in compliance with a nutrient management plan that complies with the technical standards contained within ATCP50
- All Trempealeau County livestock producers to comply with the Manure Management Prohibitions
- Maintain use of productive farmland

Annual Soil Stewardship Field Day

- Is an opportunity to educate landowners of the benefits of Soil Health to increase infiltration and reduce surface runoff.
- Trempealeau County has seen a steady increase in cover crop acres planted as a result of the field days. Landowners are interested and excited to incorporate cover crops into their management systems.



Local government officials informing landowners about different soil types and their infiltration processes.

Achieving Compliance with the Cropland Performance Standard and Prohibition



Animal Waste Storage Abandonment



Non-Agriculture Land Management

- *GOAL: Manage Land Uses to Preserve Land & Water Resources of Trempealeau County*

Non-Agriculture Land Management Goal Objectives

- Utilize the Town Land Use plans to separate conflicting land uses and to reverse the trend towards fragmentation of the county's woodlands and farmlands
- Ensure that ground and surface water resources are not degraded due to storm water discharges from construction sites
- Protect water resources from construction site sedimentation

Road left to self-seed



Properly shaped, seeded and mulched



Construction Site developed without Erosion Control



Sediment moving offsite

Site showing progress



- Sediment clean up
- Constructed clean water diversions
- Reshaped site
- Seeded & mulched
- Installed check dams
- Installed culvert protection



2005 6 14

Non-Agriculture Land Management Goal Objectives

- Ensure that the ground and surface water resources of the county are not degraded by septage effluent discharged from failing/failed septic systems
- Ensure that the soil and water resources of Trempealeau County are not degraded due to the improper land disposal of septage and whey
- Protect water resources from being negatively impacted by non-metallic mining sites

Reclamation



Forest and Invasive Species

- *Goal 1:* Encourage Sustainable Forestry Practices that Protect Ground and Surface Water Resources
 - Objective: Inform residents and loggers about the importance of sustainable forestry practices

- *Goal 2:* Encourage the Regeneration of Forests and Strive to Manage Invasive Species and Pests
 - Objective: Provide opportunities for residents to practice forest regeneration
 - Objective: Protect forests from invasive species and pests

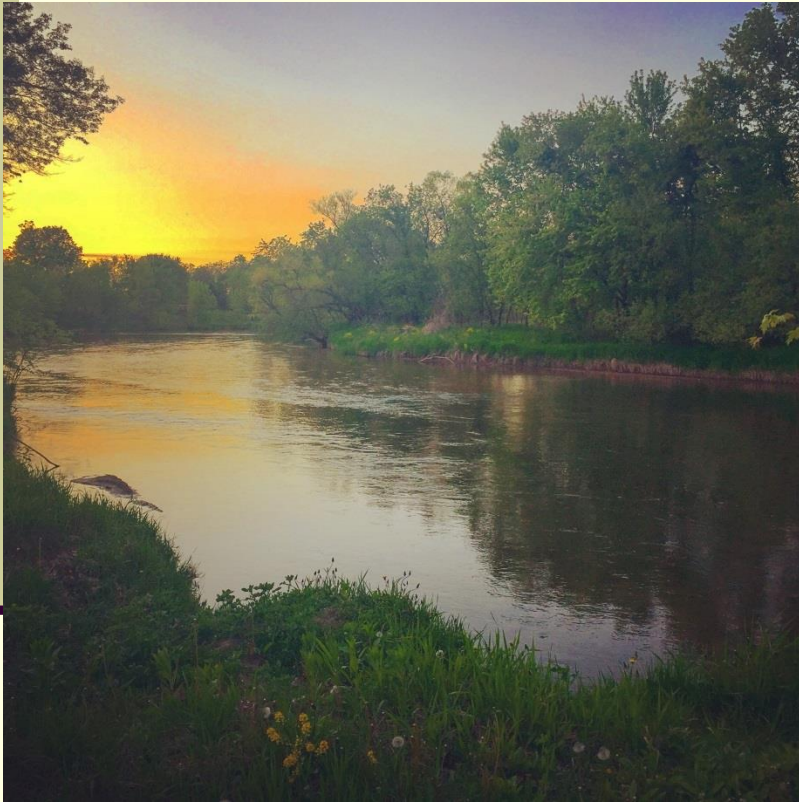
Implementation Tools & Strategies

- NR151
- NR243
- County Ordinances
- Targeted Runoff Management Grants
- Land and Water Resource Management Grants
- DNR Forestry Program
- Wildlife Tree and Shrub Sales
- Farmland Preservation
- EQIP
- Comprehensive Planning
- County Cost-Share Program

Implementation Tools & Strategies

- Conservation Practices
- I&E: Newsletters, Landowner Services, School Outreach, Tours and Field Day
- Interagency Coordination: Department of Natural Resources, Department of Agriculture, Trade and Consumer Protection, Natural Resources Conservation Service, Farm Service Agency, UW~Extension, and Western Technical College.

Pietrek Park



A FEW OF
PIETREK PARK'S
MANY
VOLUNTEERS!



Pietrek Park

UW-Extension Summer Science Day Camp



School Outreach

Local Conservation Poster & Speaking Contest



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LWRM Plan Accomplishments

1999-2015

Contracts	526 Contracts
Cropland Erosion Control Plans	179,925 Acres
Nutrient Management Plans	162,768 Acres
Construction Site Erosion Control Plans	1,275 Plans
Transportation Facilities Erosion Control/Storm Water Management Plans	145.75 Miles
Bridge/Culvert Designs	109 Designs
Non-Metallic Mining Reclamation	332.72 Acres
Barnyard Runoff Control Systems	76 # Units
Manure Storage System	44 # Units
Streambank Protection	61,470 Feet
Streambank Fencing	59,657 Feet
Streambank Riprap	47,715 Feet
Streambank Slope & Seeding	3,567 Feet
Streambank Crossing	57 # Units
Watering Ramp	3 # Units
Spring Development	2 # Units
Diversion	4,200 Feet
Critical Area Stabilization	170.3 Acres
Cattle Access Lanes	3,198 Feet
Woodlot Fencing	3,713 Feet
Grade Stabilization Structures	58 # Units
Well Abandonment	9
Grassed Waterway	26.15 Acres
Manure Storage Closure	2
Access Road	4,707 Feet

Funding and Plan Implementation

- DATCP Allocation
- NR151 ~ Agricultural and Non-Agricultural Performance Standards
- County Ordinances
- 5 year implementation plan

Evaluation and Monitoring

- On-site evaluations for compliance with the performance standards and prohibitions
- Geo-database tracking by parcel
- Annual accomplishment reports, financial data, installed practices, pollutant data, and I&E activities